

AMENDMENTSIN THE CLAIMS

Please amend the claims as follows:

9. (Currently Amended) A method for producing a compound commercially valuable compounds, said method comprising the steps of producing a fertile transgenic plant by introducing into plant cells a DNA construct comprising a promoter, a blocking sequence, and a coding sequence of a structural gene coding for a compound that is detrimental to the plant and is commercially valuable, said blocking sequence being flanked by a pair of directly repeated site-specific recombination sequences and wherein the structural gene is operably linked to the promoter only after the removal of said blocking sequence, and culturing the plant cells to produce the fertile transgenic plant;

pollinating fertilizing said transgenic plant to produce transgenic plants that are homozygous for the DNA construct gene encoding said compound;

crossing said transgenic plant homozygous for the DNA construct gene encoding said compound with a plant having a DNA sequence comprising a coding region gene encoding a site-specific recombinase that recognizes said site-specific recombination sequences to produce an F1 plant or seed;

expressing the site-specific recombinase in the F1 plant or seed;

expressing the compound; and

extracting the compound in economical quantities.

20. (Currently Amended) The method of claim 9 wherein the step of crossing said homozygous transgenic plant with a plant having a DNA sequence comprising a coding region gene encoding a site-specific recombinase produces an F1 plant or seed that expresses the biologically detrimental compound.

21. (Currently Amended) The method of claim 20, wherein the extracting step comprises further comprising the step of extracting the compound from the plant or seed.

22. (Previously Added) The method of claim 9 wherein the promoter is a constitutive promoter.

23. (Currently Amended) The method of claim 9 wherein the pair of directly repeated site-specific recombination sequences are FRT recombination sequences,

and the coding region gene encoding the site-specific recombinase encodes the FLP recombinase and is operably linked to a constitutive promoter.

24. (Currently Amended) The method of claim 9 wherein the step of pollinating fertilizing said transgenic plant to produce plants that are homozygous for the DNA construct gene encoding said compound comprises self-pollination.

25. (New) The method of claim 9 wherein the promoter of the DNA construct is a leaf-specific promoter and the extracting step includes extracting the compound from leaves.